

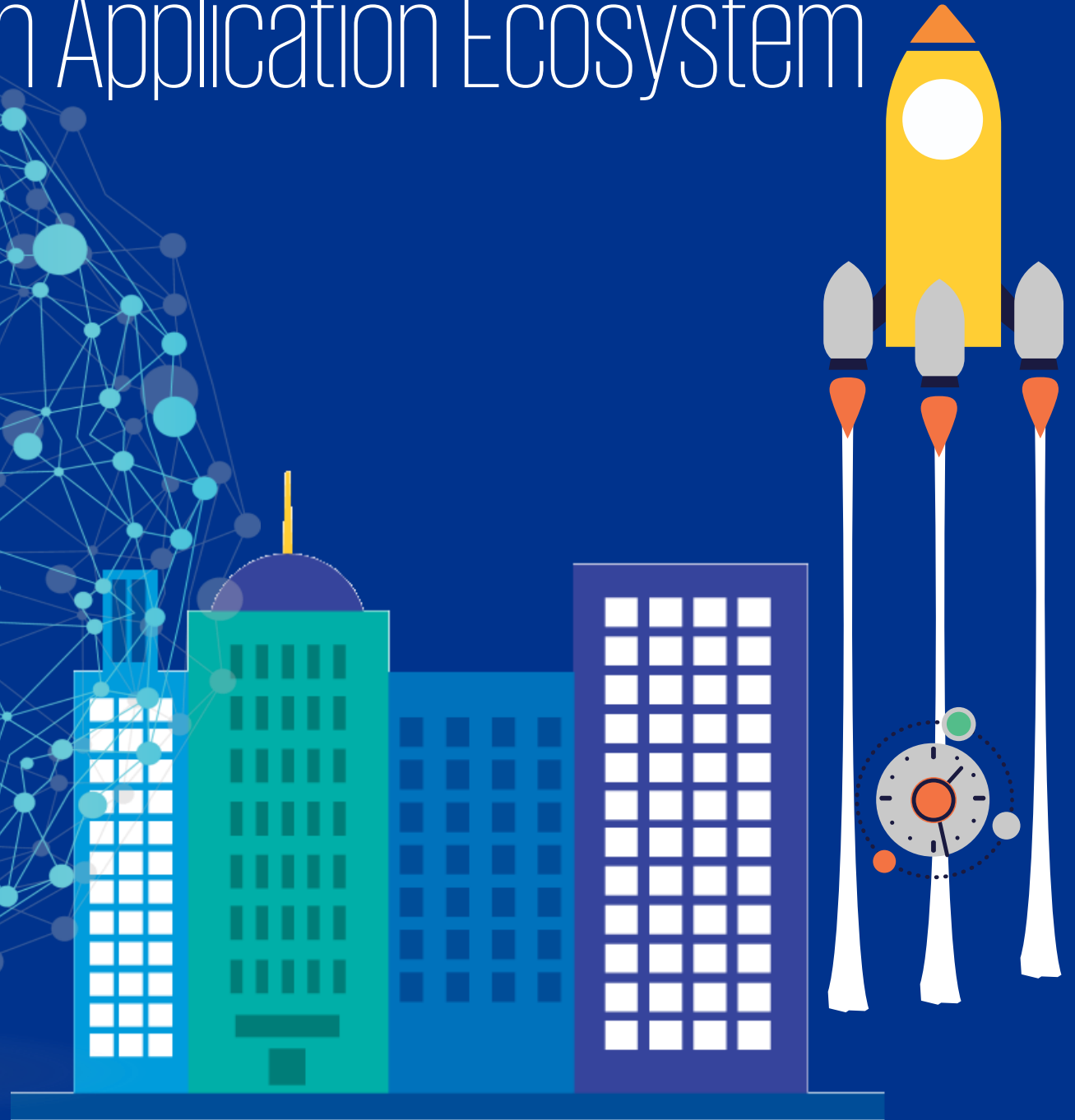
Space Park and Space-Tech Application Ecosystem

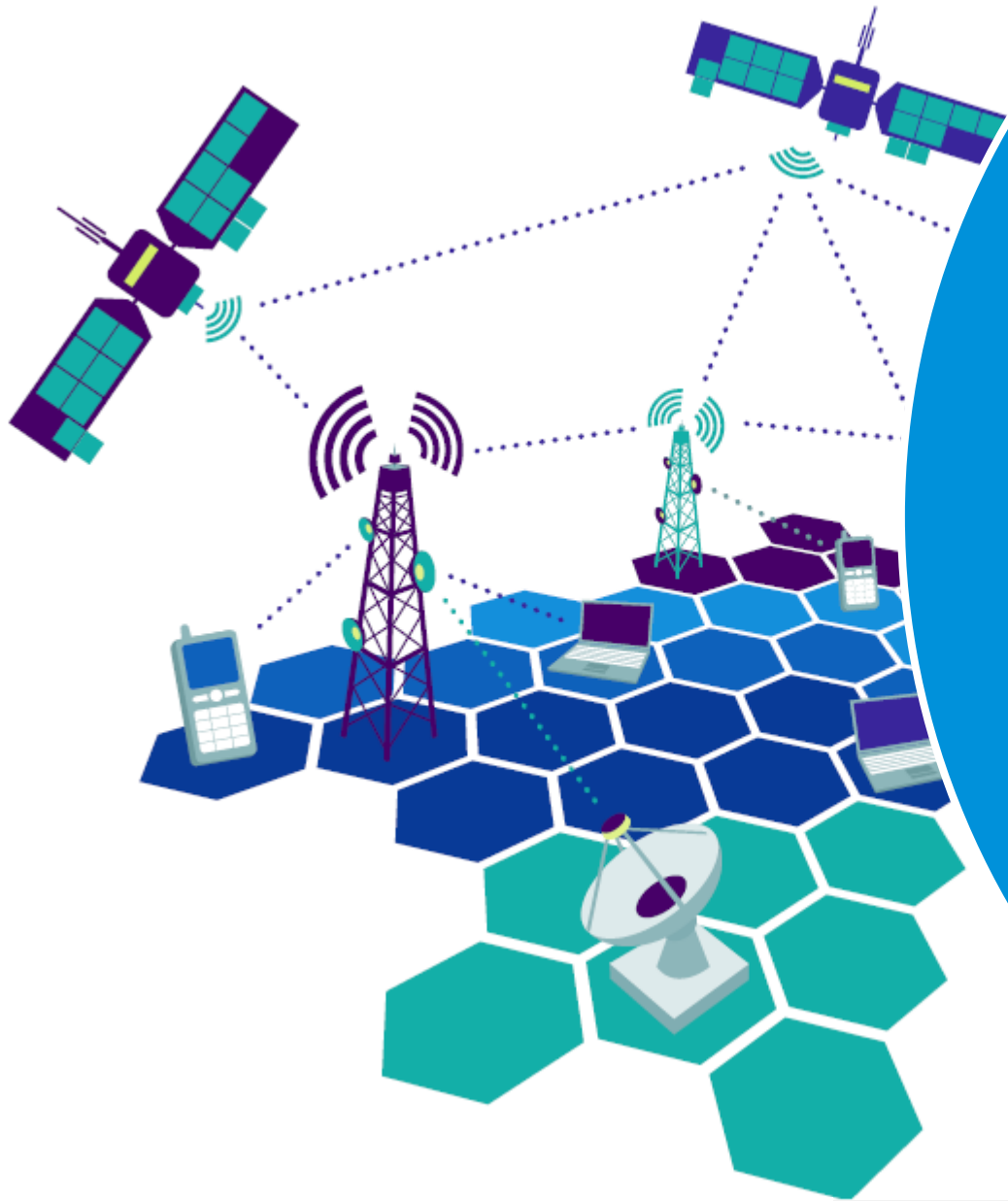
Knowledge City, Trivandrum



Government of Kerala, India

June, 2018





01 India and Kerala – At a glance



02 Kerala's "Space" footprint



03 Opportunities in Kerala Space Ecosystem – STADE Concept



04 Investor Guide



01 India and Kerala - At a glance



Indian growth story continues to progress and evolve.....

Government's support initiatives

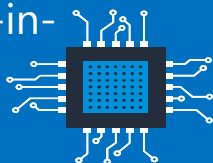
Digital India

Initiative aims to create a digitally empowered society and knowledge economy with an outlay of USD 17.5 billion



Make in India

Aims at enhancing manufacturing through investment, innovation and by building best-in-class manufacturing infrastructure



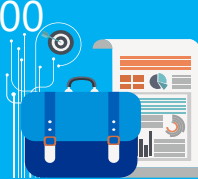
EoDB

Aims to create a conducive business environment by aligning India's regulatory reform initiatives to that of World Bank's Doing Business project



Startup India

Aims to create a optimally enabling environment for both existing and prospective entrepreneurs. Over 6000 Startups recognized.



India's continuously improving business regime

- India undertook 7,000 steps at the central and state level to **simplify business regime** and attract foreign investments in the country.
- India jumped a record 30 places in World Bank's **Doing Business** Report, 2018 to achieve **100th rank**
- Country is witnessing significant investment announcements and inflows on the back of a **liberalized FDI regime**
- Indian **start-up base** is ranked 3rd globally, and is expected to **grow 2.2 times till 2020**
- India's long term growth potential stands undisputed and a **host of reforms undertaken recently have laid down a strong and firm foundation** for the future of this high potential economy

Kerala...Many successes to be proud of.....

God's own country

Kerala is one of the few states to have marketed its natural beauty successfully to the leisure tourism sector. The state's unique heritage and cultural diversity have helped attract tourists from the world over.



Well-trained human resource pool

Kerala has a massive talent pool that is increasingly strategic to driving success for the state. The state holds some very good universities aligned to industry standards.



Gateway to international trade

Kerala has the 1st international transshipment terminal in India, having a design capacity of around 4 million TEUs



Promoting Knowledge-based industries

Kerala has been promoting knowledge-based industries such as IT/ITeS, computer hardware, etc. and is the first state having a technology park with CMMI level 4 quality certification & a world-class IT campus in Thiruvananthapuram.



Best startup ecosystem

Startup Village has incubated over 500 startups in Kerala. Maker Village is the most advanced incubation centre for hardware startups in India



Reforms are being undertaken at all levels to unleash Kerala's high growth potential

Kerala's Socio-Economic Highlights

0.92

HDI –
comparable
to developed
world



USD 120 Bn

Gross state domestic
product (at current prices)
estimated for 2018-19



93.91%

Overall Literacy
rate (highest in
India)



USD 2,400

Per capita net state
domestic product (at
current prices) (FY18)



- With about 30 million connections for a population of about 33 million, the **state has the highest mobile penetration in India**. The state has the highest penetration of optic fiber cable too in India.
- Kerala has one of the **best banking, education and healthcare systems in the country**
- Apart from being among the **leaders in industrial development and per capita income**, Kerala has the highest literacy rate of 94 per cent in the country
- In FY17, the government of **Kerala allocated USD 74 million** (INR 4.8 billion), a y-o-y increase of 29 per cent, for the **development of IT sector**
- Kerala's **IT exports** in 2016-17 was **USD 1846 million (INR 12,000 crores)** with over **1,00,000 IT employees**

Kerala's Ease of Doing Business Scenario

Ease of doing business initiatives of India

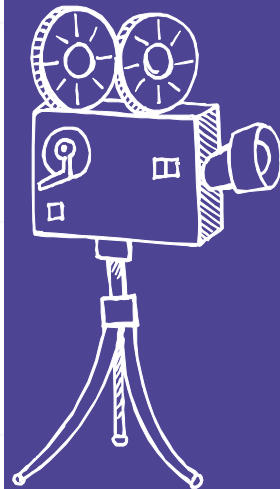
Series of Central Government reforms to improve investment environment

340 point framework of 2016 for assessment of states updated to 372 action points in 2017

Key role to be played by states in improving overall business climate

Comprehensive business-to-government feedback exercise introduced for assessing quality of implementation

Initiatives have improved India's rank

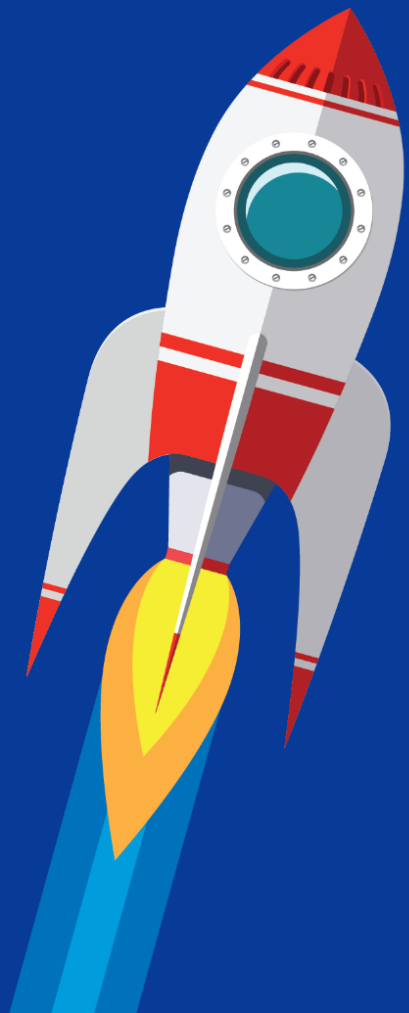


Top reforms implemented by Kerala

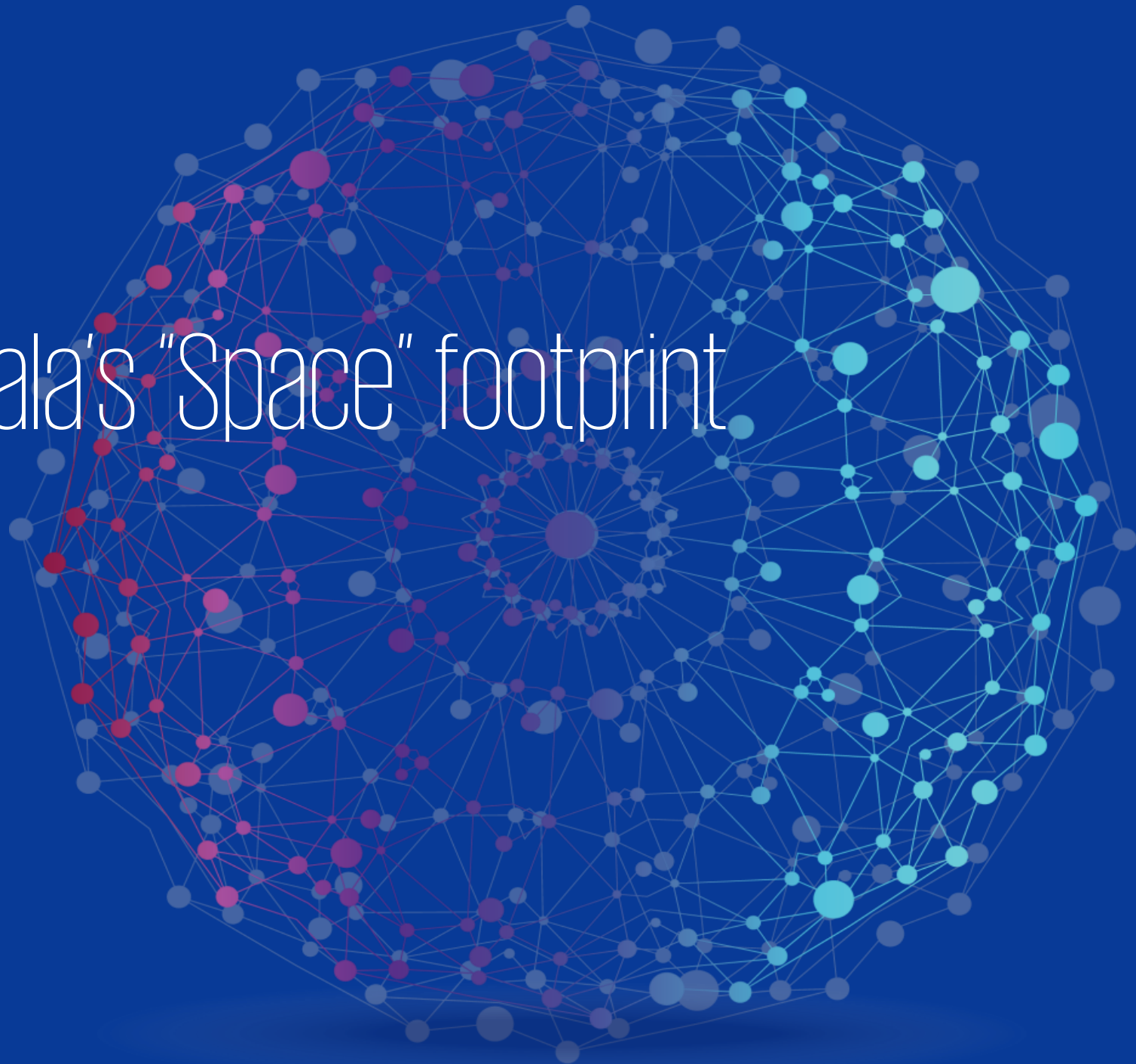
- Access to Information and Transparency Enablers
- Single Window
- Availability of Land
- Construction Permit Enablers
- Environmental Registration Enablers

Government of Kerala yet again comes up with a progressing legislation, leading its way - **First state in the country to have implemented an omnibus Act** to promote ease of doing business.

- 'Kerala Investment Promotion and Facilitation Act-2018' is one of the major reforms the state has enacted after the 'Kerala Panchayat Raj Act and Municipality Act 1994', and 'Single Window Clearance Boards and Industrial Township Development Act 1999'.
- The new omnibus Act was formulated to amend various provisions in seven legislations cutting across departments and was followed up with amendments to ten state Rules and issue of Government Orders to streamline clearance procedures of various Department/Agencies.



02 Kerala's "Space" footprint



India Space Programme - Highlights

1

India is among the **top five nations** in the field of space exploration



2

India's R&D investments (~USD 77 Bn) share constitutes **3.6%** of global R&D spend



3

INSAT system is one of the **largest** domestic communication satellite systems in **Asia-Pacific region**



4

India's space programme stands out as one of the **most cost-effective and reliable** in the world



5

237 foreign satellites (nano, micro, mini, and standard size) launched by India's space programme for **28 countries**.



6

World record of sending **104 satellites into space in a single mission**



India Space Programme - Highlights

7

International cooperation agreements with **33 countries** and **3 multinational bodies**



10

30 spacecrafts in different orbital paths



8

ISRO continues to share its facilities, expertise and services in space technology with more than **1100 beneficiaries** from **52 countries**.



11

Increased interest in India's space sector among private players has led to a draft '**Space Activities 2017**' Bill released by the DoS.



9

India is witnessing the **rise of Space 2.0** with in-house startups planning their own space-based products and services.



12

India has generated ~ **USD 290 million** (INR 20 billion) in **2017** by catering services for commercial space activities including launch services.



Kerala's Space Footprint – Origin of India's space program

Thumba Equatorial Rocket Launching Station (TERLS)

was set up in Thiruvananthapuram for conducting upper atmospheric research later renamed as Vikram Sarabhai Space Centre. On 21 November 1963, India was ready for its **very first rocket launch** from Thumba.

ISRO Inertial Systems Unit (IISU), a research and development unit of the Indian Space Research Organisation was set up in Thiruvananthapuram which is responsible for the design and development of Inertial Systems for Launch Vehicles and Spacecraft programmes of ISRO

BrahMos Aerospace acquired Kerala Hitech Industries Limited at Thiruvananthapuram and formed BrahMos Aerospace Trivandrum Limited specializing in rocket engine manufacturing for satellite launch vehicles etc.

1960's

1990's

2000's

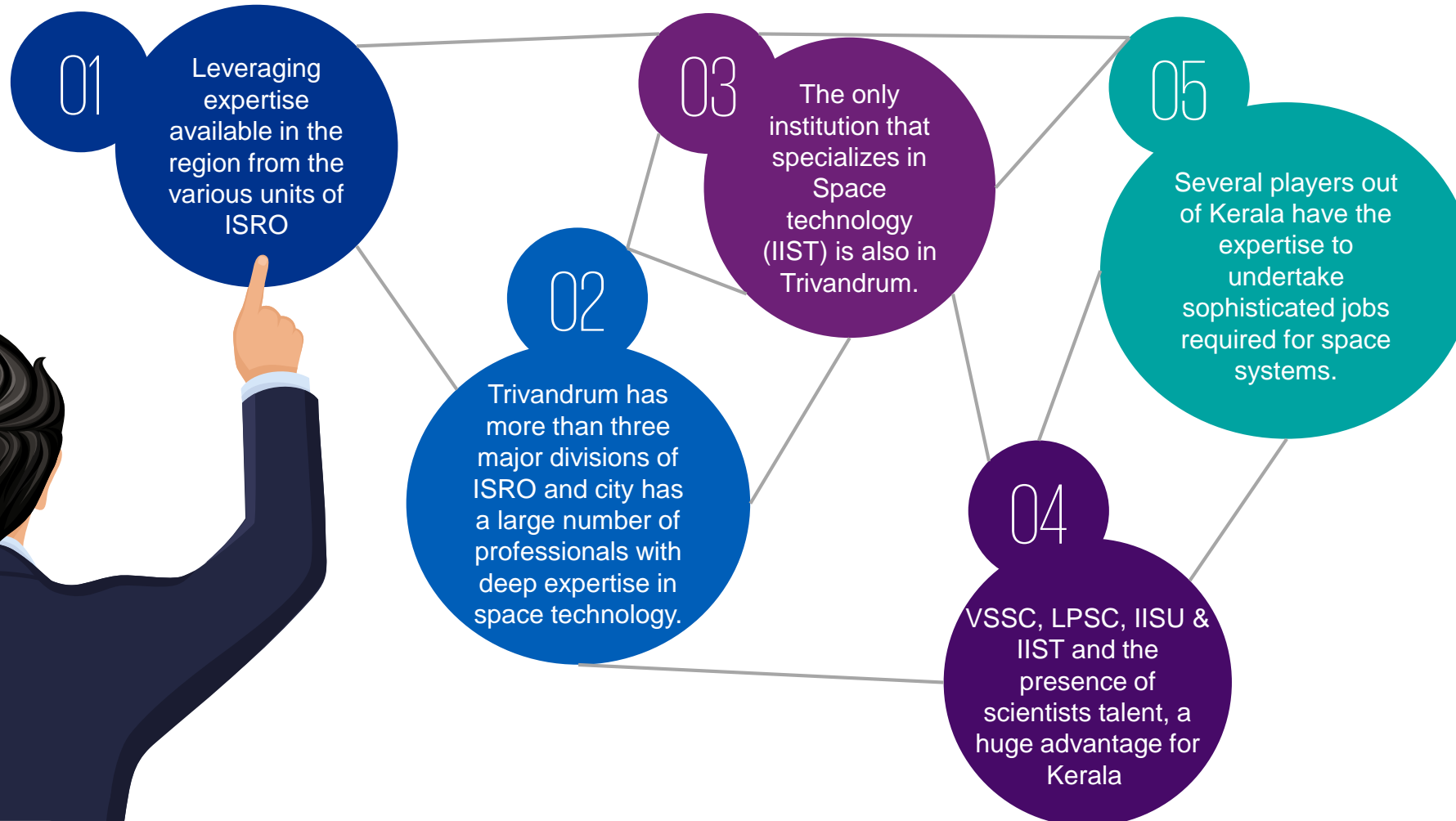
Liquid Propulsion Systems Centre is a research and development centre under ISRO specializing in Earth-storable and cryogenic propulsion for launch vehicles. It delivers engines, stages, associated control systems and components for launch vehicle and spacecrafts

Indian Institute of Space Science and Technology was set up at Thiruvananthapuram for the study and research of space science.

In the 1960s, a handful of scientists started work on India's space programme at a church in Thiruvananthapuram

Half a century later, India's space programme has grown to become **a leader in the ~USD 340 billion global space industry, known for its reliable, low-cost launches** and attracting a growing global clientele.

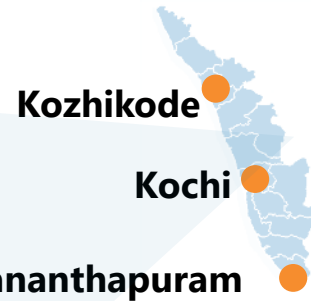
Advantage Kerala



Kerala's Strong Talent Pool

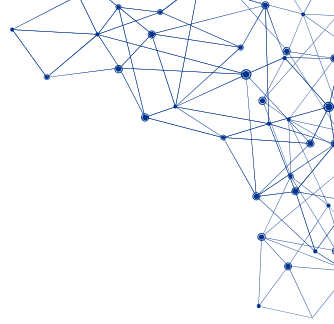
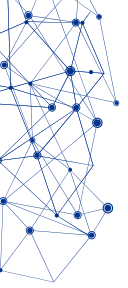
Major educational centers in Kerala – Thiruvananthapuram, Kochi, Kozhikode

	Thiruvananthapuram	Kozhikode	Kochi
Research	<ul style="list-style-type: none"> • Vikram Sarabhai Space Centre • Indian Institute of Space Science and Technology • Indian Institute of Science Education Research • Brahmos Aerospace • Regional Cancer Centre • National Institute of Interdisciplinary Science and Technology • Tropical Botanical Research • Regional Research Laboratory 	<ul style="list-style-type: none"> • Indian Institute of Spice Research 	<ul style="list-style-type: none"> • Central Marine Fisheries Research
Universities / Law / Management	<ul style="list-style-type: none"> • University of Kerala 	<ul style="list-style-type: none"> • IIM Kozhikode • University of Calicut 	<ul style="list-style-type: none"> • Cochin University of Science & Technology • National University of Advanced Legal Studies
Engineering & Technology	<ul style="list-style-type: none"> • College of Engineering • Rajiv Gandhi Biotechnology Centre 	<ul style="list-style-type: none"> • National Institute of Technology 	<ul style="list-style-type: none"> • Model Engineering College
Medical	<ul style="list-style-type: none"> • Govt. Medical College (AIIMS) • Sree Chitra Institute of Medical 	<ul style="list-style-type: none"> • Government Medical College 	<ul style="list-style-type: none"> • Cooperative Medical College



- **Thiruvananthapuram** remains a **major space research hub** in South India, providing a large 'knowledge workforce'
- Indians have played a major strategic role in **NASA's space exploration efforts** with **scientists, astronauts, researchers** from **Kerala** as well

Note: *Highlighted institutes are space-specific institutions/research centers*



Trivandrum – Location attractiveness

Housing a vibrant knowledge ecosystem; Hub of emerging tech in Kerala

IT hub

Technopark, KINFRA IT SEZ,
C-DAC, Technocity



Large employment base

Within Kerala, concentration
of job seekers is
concentrated towards the
south.



Major educational hub in South India

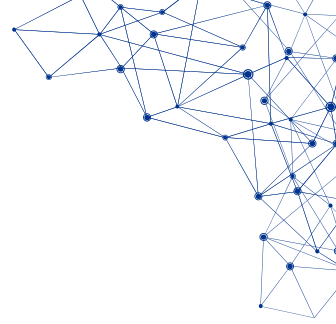
University of Kerala, College of Engineering,
IISER, NIIST, Indian Institute of Molecular
Sciences. Over a dozen world class
institutions of higher education and R&D.



Best-in class Space Research base

VSSC, LPSC-ISRO, IIST,
Brahmos Aerospace etc.



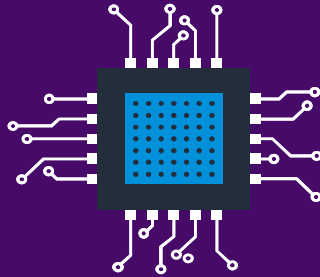


Trivandrum – Location attractiveness

Housing a vibrant knowledge ecosystem; Hub of emerging tech in Kerala

Startup Ecosystem Support

KSUM, Technopark business incubator (TBI), TREST



Smart City

Thiruvananthapuram tops among the 30 new cities added to the Centre's Smart Cities Mission in Round 3.

Kochi and Thiruvananthapuram are proposed to be developed as smart cities in Kerala.



Industry infrastructure

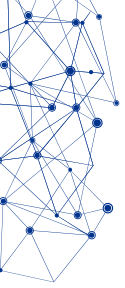
Trivandrum and Kochi remain at the forefront in the development of industrial infrastructure. First CMMI level 4 quality certification and world-class IT campus is in Trivandrum.



Best city to live in

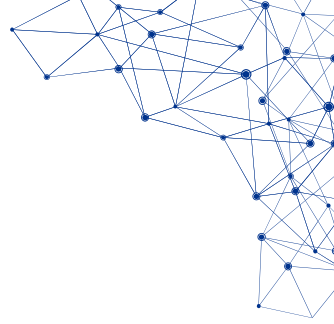
Trivandrum ranks first in the Annual Survey of India's City-System 2017 conducted by Janaagraha.



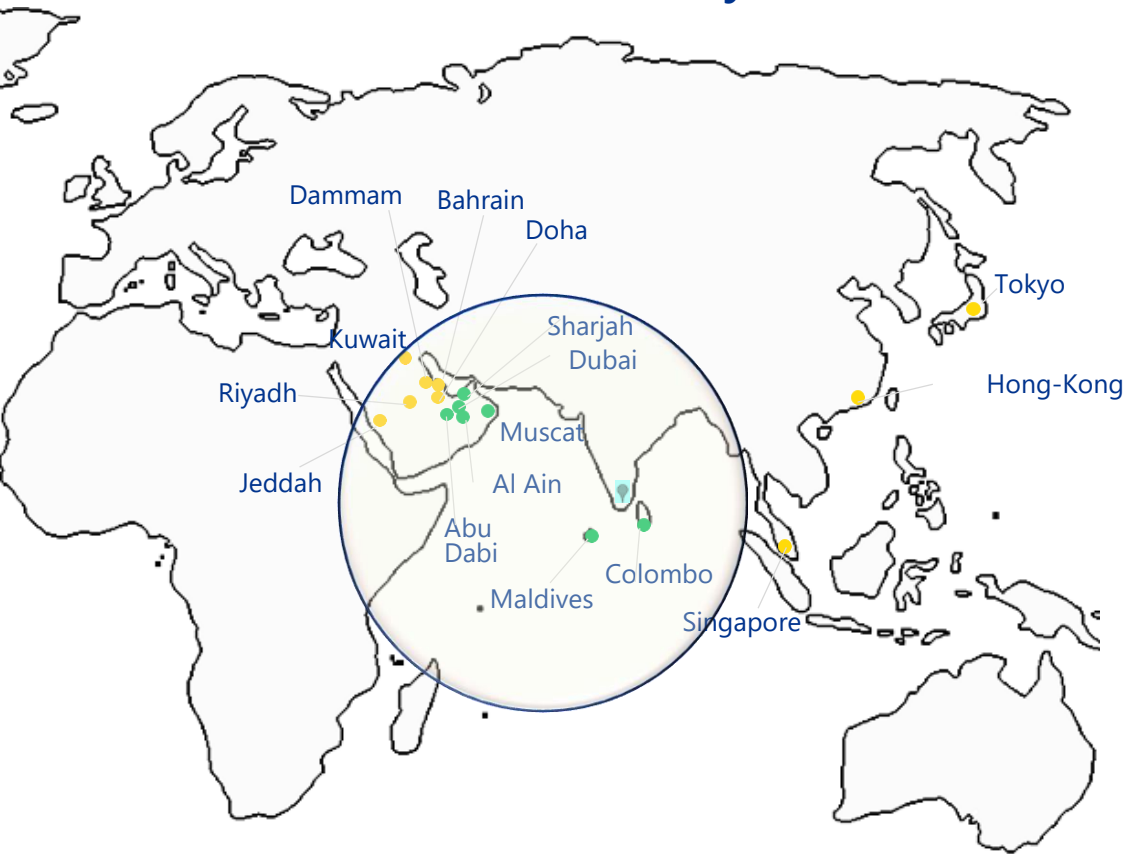


Trivandrum – Location attractiveness

Well connected to International markets



Inter-India connectivity

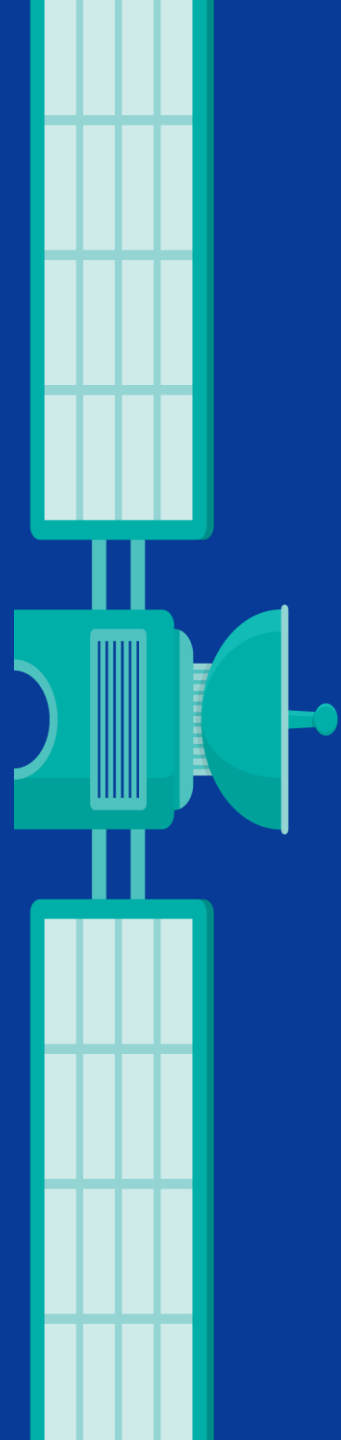


- Direct connectivity with > 5 hours flying time
- Direct connectivity with < 5 hours flying time

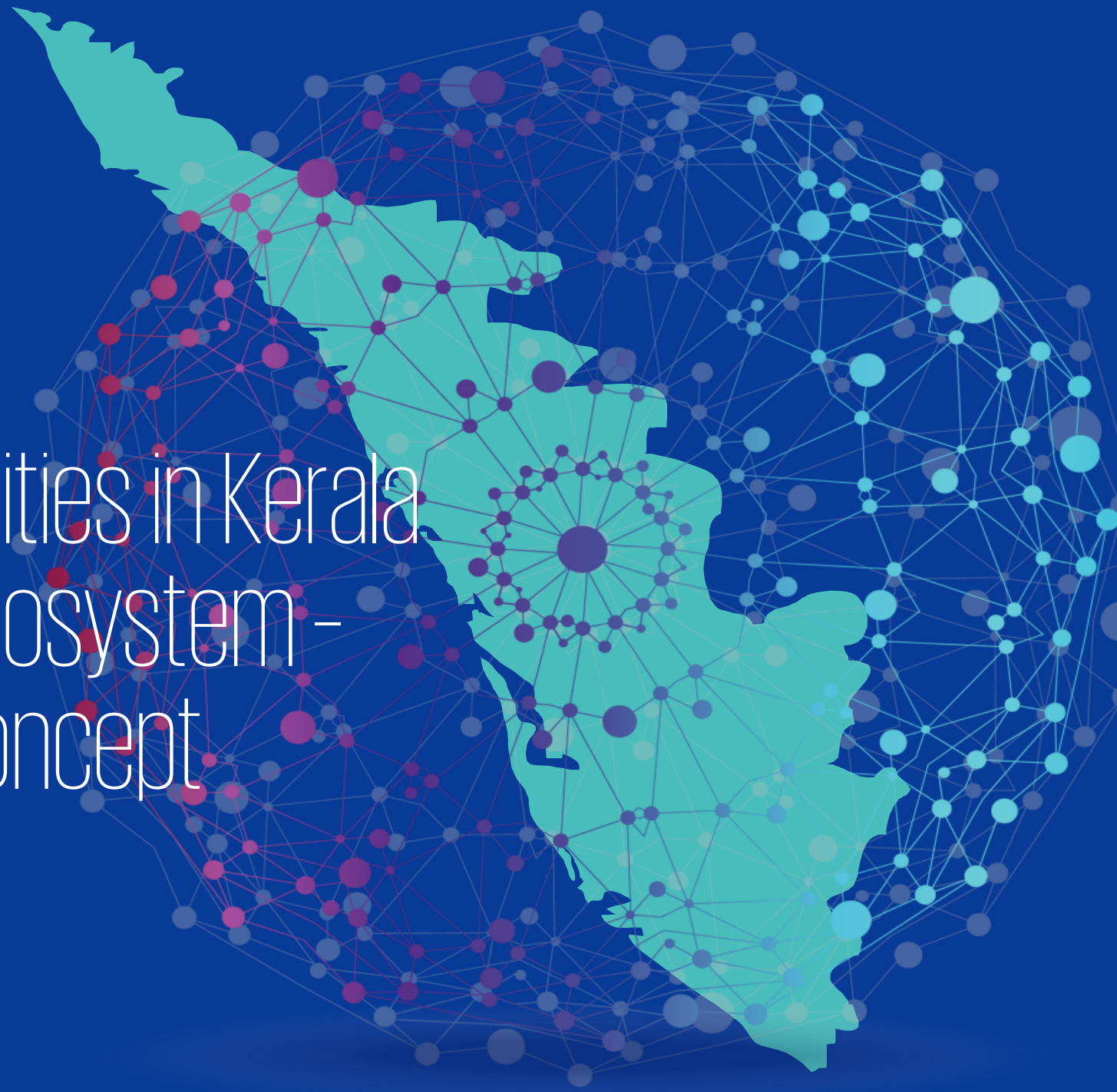
Intra-India connectivity

City	Trivandrum
Bangalore	1h15m
Chennai	1h20m
Hyderabad	1h45m
Mumbai	2h15m
Delhi	3h30m
Goa	3h35m
Pune	3h45m
Ahmedabad	4h10m

- Well-connected to International destinations
- Good connectivity to **South East Asia and Middle East Asia regions**
- Good connectivity within India
- Trivandrum is in **near proximity to Bengaluru** – Key space market of India



03 Opportunities in Kerala Space Ecosystem – STADE Concept



Kerala Knowledge City Programme – Vision 2030

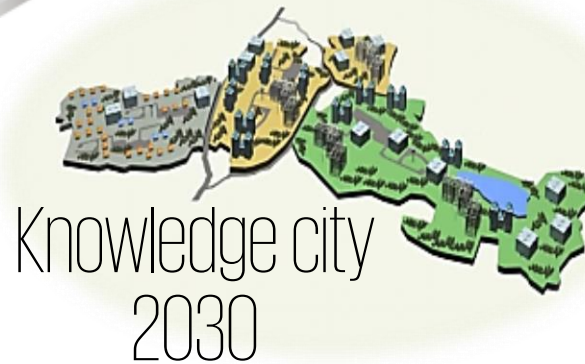
Self contained township –
smart & sustainable over
longer run



High density – Vertical growth
(within limits)



Innovation – fosters innovation and
spirit of entrepreneurship



Unique positioning – similar to
some renowned developments



IP intensive – Avenues for IP
generation (patents, R&D etc.)

Intelligent city services will be provided within the 'Knowledge City' to drive resource-efficiency and sustainability

Smart Services

Intelligent Security

A safe secure environment using the latest video analytics, biometric access to buildings and emergency response systems

Urban Operating System

A system that helps to manage the district digitally by collecting data in real-time to enable services to run more efficiently and securely, and allows the citizens to interact with the government, as well as to use the data to develop new applications

Parking & Transportation

A system that includes sensors embedded into parking spaces, light-guiding systems and mobile parking reservations to enable quicker parking and reduce congestion

Utilities Services

A network of sensors and actuators overlaying the physical water pipes and tanks, and the electricity grid to improve distribution and usage

Sustainable Services

Solar Public Lighting

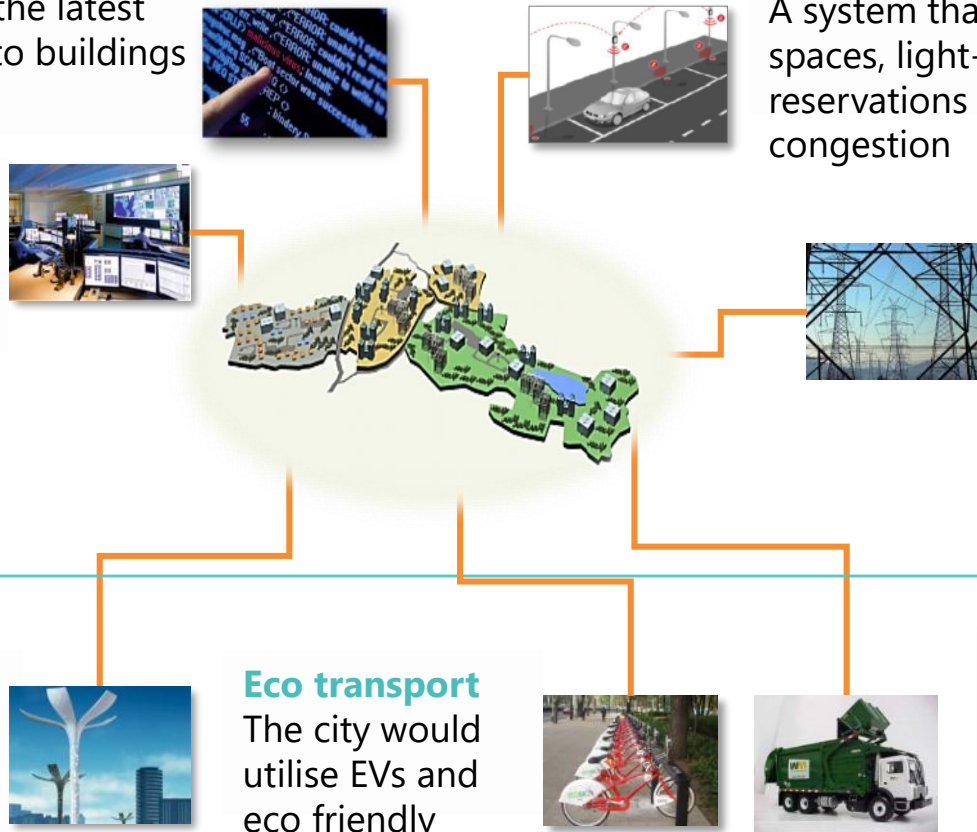
A solar-powered lighting system that adjusts street lights based on the surrounding environment to reduce energy, maintenance costs and safety risks

Eco transport

The city would utilise EVs and eco friendly transport

Waste Removal

A waste collection service that uses the district's current waste infrastructure and incorporates recycling principles, compost creation, and sensors to inform collection trucks on the fullness of recycling bins



Kerala Knowledge City Programme – Space-Tech Focus

Vision and Objectives

To position the state as a unique place for the interplay of exponential technologies

- Fosters innovation and spirit of entrepreneurship.
- Coordinate ecosystems
- Support Infrastructure

Hub-based approach

- Integrating all academic institutions, research and development centers etc.
- Focus on intellectual property and value creation
- Boosting employment creation and up- skilling the local talent pool

Building world class infrastructure to enable economic and business growth in the state

- Centers of Excellence
- Digital infrastructure
- Incubators

Focus Verticals (Centres of Excellence)

Space-Tech

Cognitive Computing & Artificial Intelligence (AI)

Electrical Vehicles

Big Data & Internet of Things (IOT)

Block Chain & Fintech

COE Focus Areas

- **Futuristic IT Policy**
Clear articulation of vision and focus areas, flexibility for policy refresh to incorporate industry 4.0 technologies
- **World-class Technology Capability**
Data Analytics, AI, IOT, Cyber security etc.
- **Support Infrastructure**
Secured real estates, Fab labs, Incubation facilities etc.
- **Research and Education ecosystem**
ISRO/VSCC, IISER, IITMK, ICFOSS
- **Vibrant startup promotion**
Both students & professionals
- **Skill Development**
ASAP, ICT Academy and KASE

Increased economic activity

Employment creation

Competitive advantage in the global market

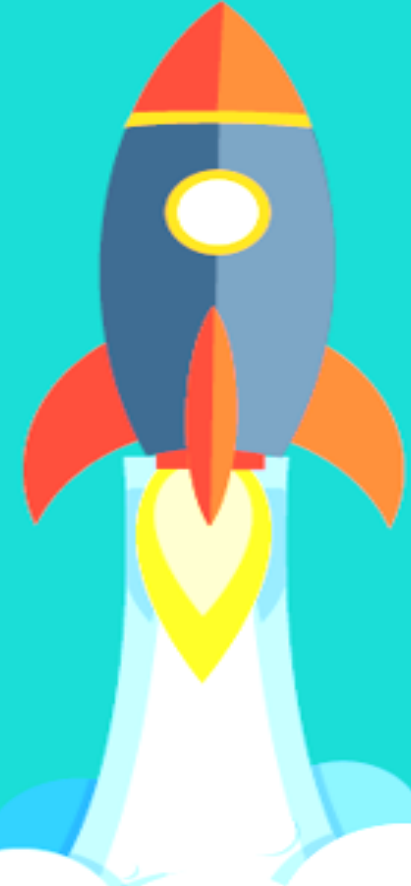
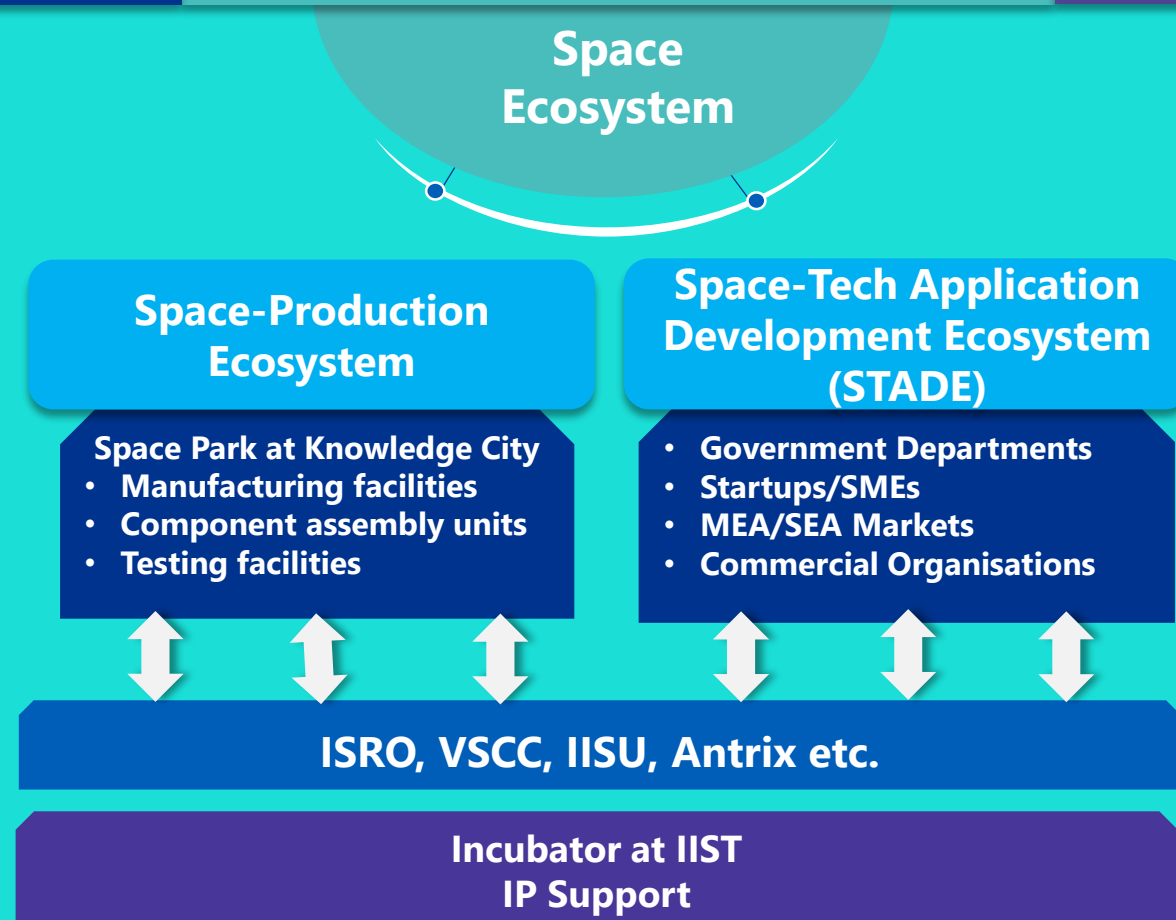
Leverage inter-sector opportunities and knowledge support

Attract global players

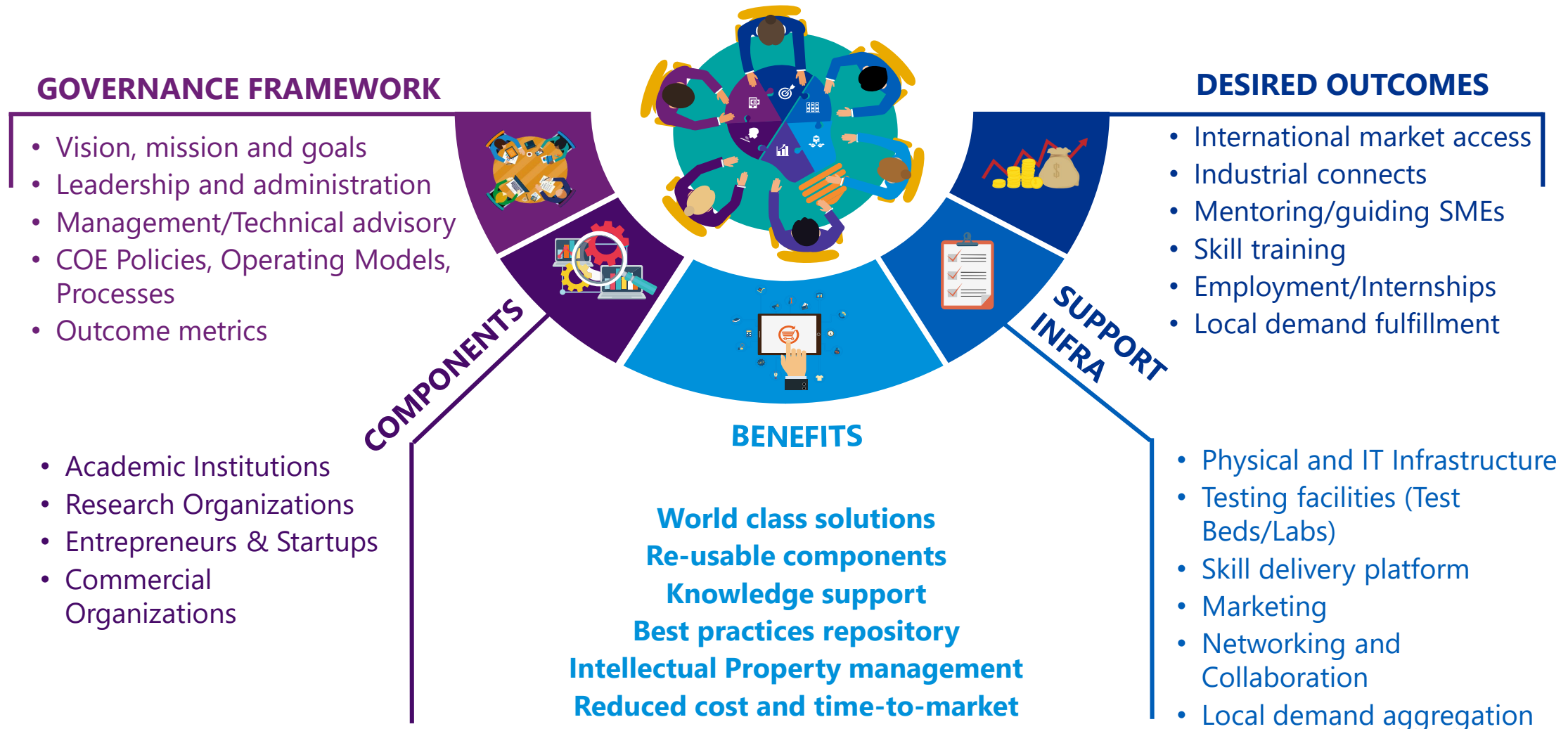
Space Centre of Excellence – Snapshot



Kerala is all set to make another mark in the **satellite/space technology sector** by starting a **'space park'** with a Space production and Space-Tech Application Development Ecosystem.



Space Centre of Excellence - Framework





STADE Park – Key Offerings



Space park set up with the technical support of the Indian Space Research Organisation (ISRO)

Platform to tap the knowledge potential of resources from Indian Institute of Space Technology and VSCC (ISRO)

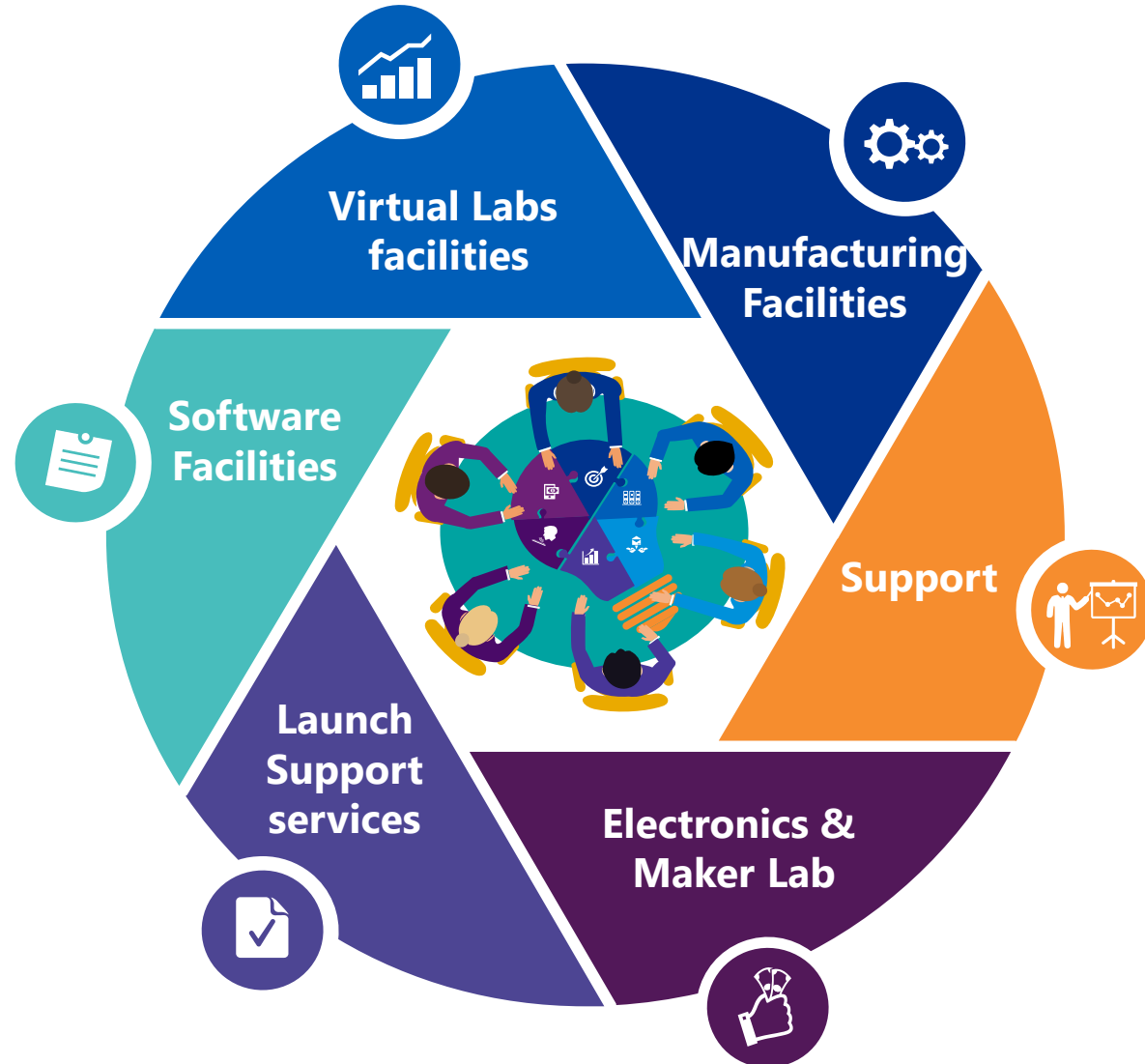
Key players in the ecosystem to provide knowledge support – VSCC, ISRO, etc.

Basic facilities and tools available at reasonable rates

Incubator facilities and workspaces of International standards

Government support to facilitate businesses in the state

STADE Park – Key Offerings





STADE Park – Key Offerings



Virtual Labs Facilities

- Simulator facility to plug in Live-Virtual space simulation
- Simulation, computing, visualization facility
- Plug and play interfaces for simulating and testing subsystems
- High Performance Computing Centers (HPC) & visualization centers
- Virtual testing systems like launch testing, vibration testing

Software Facilities

- Tools for analysis of Complex Systems
- Fault Diagnosis, AltaRica like tools
- Catastrophic failure prediction tools
- Modeling Tools: Model validation tool, stochastic simulation, language AltaRica
- CFD , Visualization tools and APIs
- Design Softwares, Logic analyzer

Launch Support services

- Telemetry tracking support systems/ Services
- Satellite Tracking Services : Amateur Radio satellite tracking and Custom Tracking Support
- Orbit Determination Tools
- Attitude Control Tools
- Cargo Optimizer : payload paths, reentry paths, with pressurized and non-pressurized cabins , stress analysis (Hypersizer)



STADE Park – Key Offerings



Manufacturing Facilities

- Thermovac Chamber
- Vibration, Acoustic Test facilities
- Clean Room , Satellite Integration Chamber
- Compact Antenna Ranging Test facility
- Storage facility
- Test equipment's

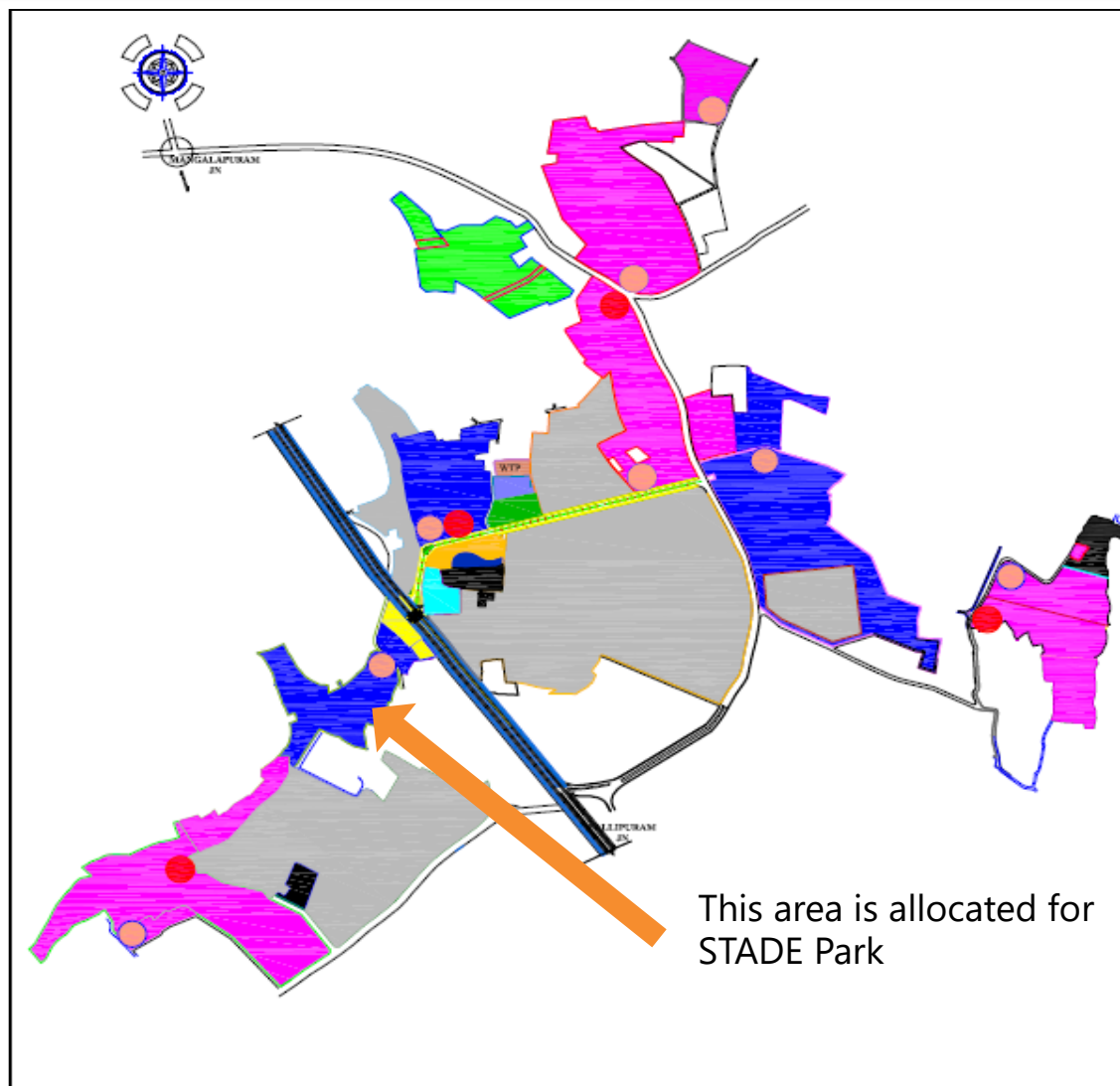
Support

- Access to key investment zones
- Ease of Doing Business – Support through single window facilitation and clearance
- Access/ Facilitation to ISRO/ Antrix
- Investment friendly zones
- Access to dedicated Industrial Growth Centers

Electronics & Maker Lab

- 3D printed Satellite structure
- Robotic cells for Composite manufacturing
- 3d Printers - plastic, Metal matrix, Carbon fiber
- Additive printers , SLA printers
- Laser sintering machines which can embed PCB traces, electronics in complex plastic shapes, moulds
- Maker lab

STADE Park - Indicative zoning of Knowledge City



Legend*

	OFFICE
	RESIDENTIAL (Including Recreational spaces,club houses)
	RETAIL SPACE
	SCHOOL
	HOSPITAL
	HIGHER EDUCATION
	ADMINISTRATION (POLICE,FIRE ETC)
	HOTEL
	BUS TERMINUS
	PLACES OF WORSHIP (4)
	PROPERTIES OUT OF ACQUISITION
	RAIN WATER HARVESTING
	Allocated land (10+10+50+97 Acres)

**Indicative allocation*

STADE Park – Proposed facility

Zone 1

Space Technology Park for startups

Area earmarked – Special zone for aero/space technologies with dual use strategy for start ups with 10,000 Sq Ft. plug n play

Major Facilities proposed

- Virtual labs
- Common software's for shared use – simulation, HPCs
- Satellite uplink and downlink facility
- High speed internet
- Analytical Tools, Modeling Tools, Design Softwares etc.

Zone 2

Space Production Support Park

Area earmarked – 10 acres with building and all infra as required for the below facilities

Major Facilities proposed

- Manufacturing / assembly of components
- Testing and calibration
- Electronics and Maker Lab
- Launch Support services

STADE Park – Key Value Proposition

Attractive solutions and application using space data in combination with other Industry 4.0 technologies has high growth potential

End-to-end support by Government of Kerala for small/large players who wish to provide services and products that are useful in facilitating space missions



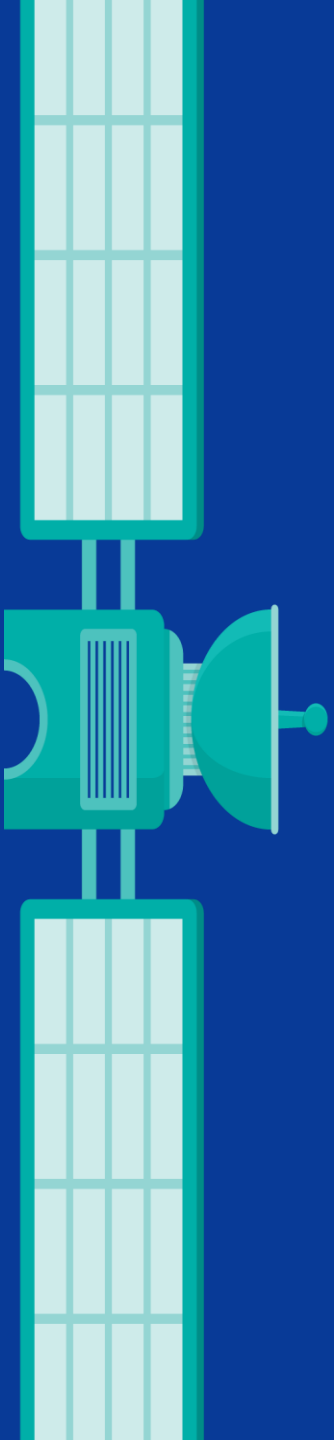
Global testing platform for small satellite, large satellite component testing. Ease-of-use of such facilities by players countries across the globe.



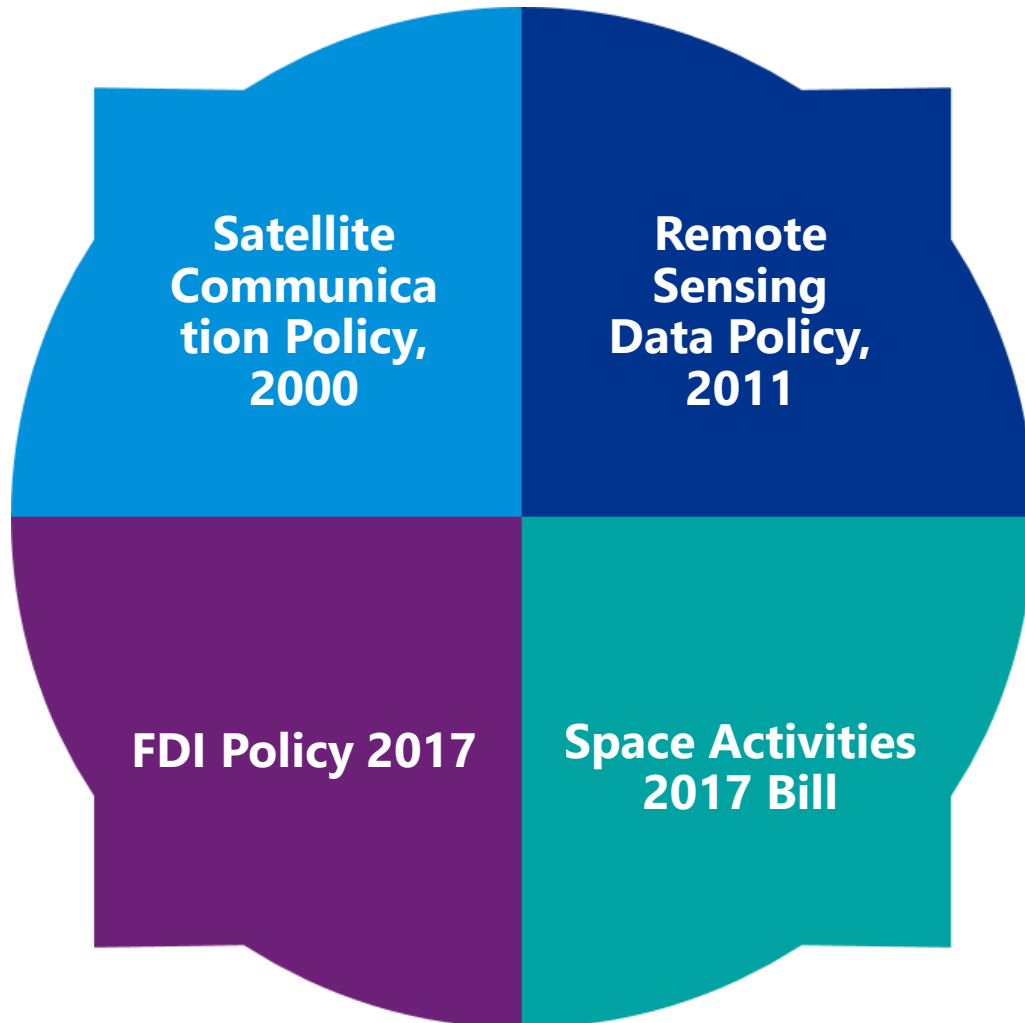
India is poised to be largest market for space production and technology across the globe. Global players looking for innovative investment opportunities in Kerala.



04 Investor Guide



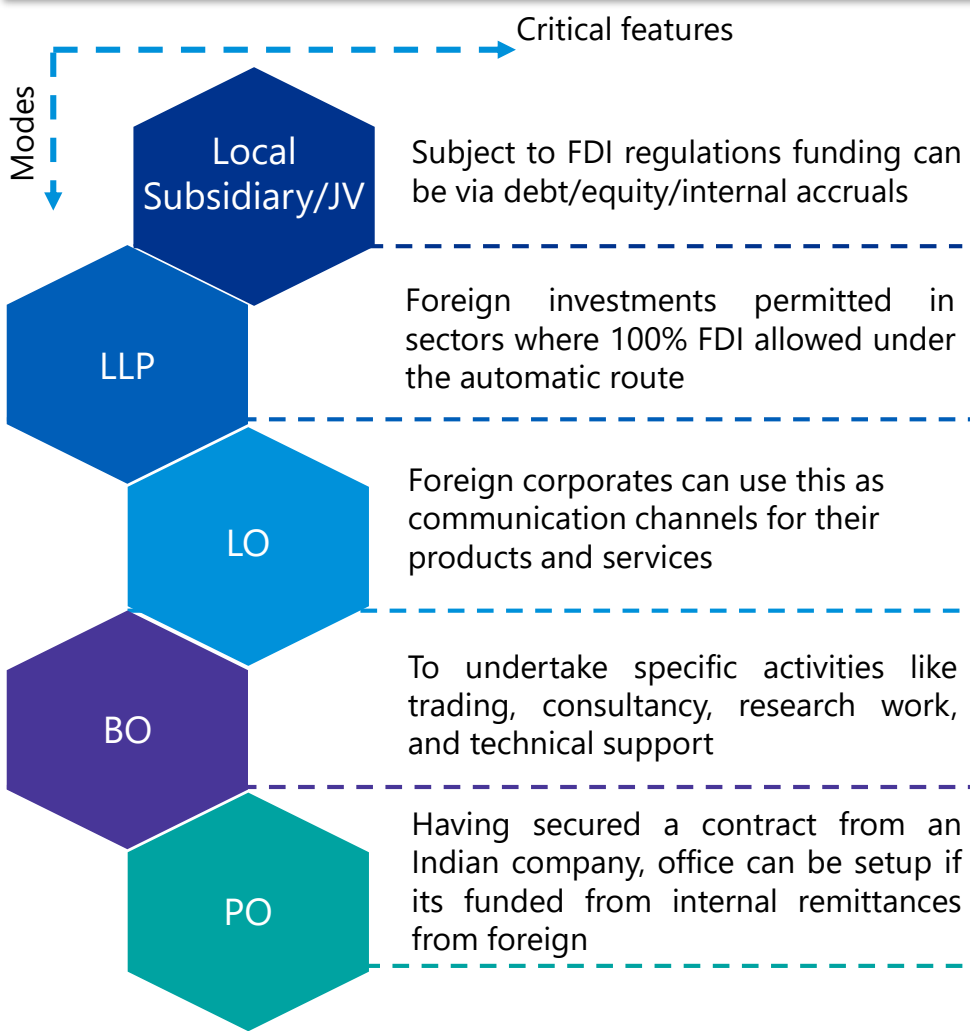
Government of India Initiative's for Space sector development



- **Spaces Activities Bill** aims to **encourage participation of non-governmental/private sector** agencies in space activities in India under the guidance and authorisation of the government through the Department of Space.
- The fundamental aim of the **Satellite Communication Policy** is to develop a **healthy and thriving communications satellite and ground equipment industry** as well as **satellite communications service industry** in India.
- Under the **Remote Sensing Data Policy**, the Government, through DOS, will be the sole and exclusive owner of all data collected/ received from IRS. All users will be provided with only a license to use the said data, and **add value to the satellite data**
- **100% FDI is allowed in satellites-establishment and operation**, subject to the sectoral guidelines of the Department of Space/ISRO

STADE Park – Investor checklist for setting up an foreign entity in India

Possible Mode of Entry: Local Subsidiary/JV Company; LLP (Limited Liability Partnership) ; Liaison Office (LO); Branch office (BO); Project office (PO)



Mode of entry	Legal Status	Setting up	Activities permitted	Funding	Limitation of liability	ROC	FEMA
Local Subsidiary/JV	Separate legal entity	Depends on activities i.e. direct or approval	Subject to FDI regulations & sectorial caps	Preference or equity shares, internal accruals, borrowings	Limited to equity participation	Significantly higher statutory compliance & filling requirements	Periodic & annual fillings required
LLP	Separate legal entity	Permitted only in sectors where 100% FDI allowed	Permitted only in sectors where 100% FDI allowed	Partners contribution to capital	Limited to partner contribution	Registration required, annual fillings of accounts	Required to file prescribed
LO	Extension of parent	RBI approval mandatory	Only liaison/representative/communication roles	Expenses to be met out of inward remittance from head office	Unlimited	Registration & periodic filling of accounts required	Annual compliance certificate with RBI
BO & PO	Extension of Parent	RBI approval mandatory except in case of PO	Activities needs to be ascertained by RBI	Same as LO or from local permitted earnings	Unlimited	Registration & periodical filling of accounts required	Annual compliance certificate with RBI

Further details are available at <http://www.mca.gov.in/>

STADE Park – Procedures for Government Approval



Filling of application

- Proposal for foreign investments along with all the supporting documents to be filled online on the foreign investment portal at the following url www.fifp.gov.in/



Internal Approval Procedures

- DIPP seeks RBI approval on FEMA perspective
- DIPP provides comments within **4 weeks of receipt of application** and MHA in **6 weeks**
- Proposals that exceeds USD 775 mn (INR 50 bn) is placed before Cabinet Committee of Economic Affairs



Final Approval

Post the proposal is completed in all aspects (which is approx. 6-8 weeks from filling of application), the same is then processed and approval/rejection is conveyed to the applicant within **2 weeks**

STADE Park – Funding Options Available

Typical Funding Options – Equity Shares, ECBs and RDBs, Debentures and Borrowings, Preference Shares

Equity Shares

Equity capital that can be issued by a foreign company is limited by authorized capital specified in MoA. Equity capital can only be repatriated on liquidation or on transfer of shares.

RDB(s)

RDBs are bonds issued in Indian rupee and can be subscribed to by residents of any country that is either a member of the Financial Action task Force (FATF).

ECB(s)

ECBs can be issued in Indian rupees or in foreign currency and is regulated by Ministry of Finance & RBI. And it can be accessed by two routes namely automatic route and approval route.

Debentures & Borrowings

Overseas funding via compulsory convertible debentures are treated as FDI otherwise non convertible debentures is treated as external commercial borrowings (ECB).

Preference Shares

Foreign investments via convertible preference shares are treated as FDI else its treated as external commercial borrowings (ECB). Rate of dividends paid out is in line with FEMA regulations

STADE Park – Investor checklist: Key set of Economic Laws in India

Indian Contract Act, 1872	Lays down the general principles relating to the formation and enforceability of contracts, consideration, the various types of contracts including those of indemnity and guarantee, bailment and pledge, agency and breach of a contract.
Companies Act, 2013	Primary legislation which provides for the law relating to the functioning of corporates in India. This law governs the incorporation management, restructuring and dissolution of companies
Negotiable Instruments Act, 1881	This law relates to promissory notes, bills of exchange, cheques, and other negotiable instruments is codified in India under the negotiable instruments act, 1881
Competition Act, 2002	This act provided for the establishment of the Competition commission of India (CCI) and the competition Appellate Tribunals to hear and settle appeals against the orders of CCI, additionally it regulates anti competitive behavior.
LLP Act, 2008	This act was enacted by the parliament of India to introduce and legally sanction the concept of Limited Liability partnership in India. It enables professional expertise and entrepreneurial initiative to combine and operate in flexible, innovative and efficient manner.
Information Technology Act, 2000	It is the primary law in in India which deals with cybercrime and electronic commerce. It is based on the United nations model law on electronic commerce 1996 (UNCITRAL Model) recommended by the general assembly of UN.
Labor Laws	It comprises of Industrial Disputes Act, 1947; Trade Unions Act, 1926; Factories Act, 1948; Employees Provident Fund and Miscellaneous Provisions Act, 1952
FEMA Act	It provides for India's foreign exchange management regime and regulates the inflow and outflow of foreign exchange and investment into/from India

Foreign Investor's Guide - Frequently Asked Questions (1/2)

01 Is investment allowed by foreigners in India and in what sectors?

Yes, the investing entity can be an individual, company, foreign institutional investor, foreign venture capital investors, foreign trusts, private equity fund, pension/provident fund, sovereign wealth fund, partnership/proprietorship firm, financial institution, non resident Indians, others, etc. All most all sectors are open to investments except a small prohibited list.

02 How much foreign investment is allowed in India?

Most of the sectors have been opened up to FDI, but there are few sectors in which foreign investment limit is less than 100%. The details of each sector can be accessed at www.makeinindia.com/documents/10281/0/Consolidated+FDI+Policy+2017.pdf .

03 What is the institutional framework governing FDI in India?

Its regulated under schedule 1 of foreign exchange management regulation, 2000 and FEMA 1999 (https://rbi.org.in/Scripts/BS_FemaNotifications.aspx?Id=174). FDI is also subject to other regulations by RBI and DIPP.

04 What are the different routes through which a foreign investor may invest in India?

1: Automatic and Approval route (required when it exceeds specified investment limits); 2: Registered Foreign Portfolio Investor (RFPI); 3: Foreign venture capital investors; 4: QFI through SEBI registered depository participants

05 What are the reporting requirements of the Reserve Bank of India?

The Company needs to report within 30 days of receiving the inward remittance, intimation is to be made to the concerned regional office of the RBI. Company is required to intimate within 30 days of issuing shares to the foreign investors



Foreign Investor's Guide - Frequently Asked Questions (2/2)



06

Are investments and profits earned in India repatriable?

Yes, investments are freely repatriable (net of taxes) except if there is a sector specific lock in period and if the investment is in non-repatriable schemes. Dividends (net of taxes) can be freely remitted through an authorized dealer bank.

07

List of prohibited sectors/business?

1: Lottery business; 2: Gambling & Casinos; 3: Chit funds; 4: Nidhi company; 5: Trading in transferable development rights; 6: Real estate business; 7: Manufacturing of Cigars, cigarettes, of tobacco and substitutes; 8: Atomic energy and railway operations (other than allowed in policy)

08

Are there any pricing guidelines that a foreign investor has to comply with while investing into any of the instruments of an Indian entity?

The reserve bank of India has prescribed pricing guidelines for both the subscription to and the acquisition of shares by foreign investors .

09

Are there instances of transfer by way of sale, which require prior approval?

Certain specified instances of transfer of shares from residents to non-residents by way of sale or otherwise requires prior permission of the FIPB or DIPP followed by RBI. More at <https://rbi.org.in/Scripts/FAQView.aspx?Id=26>

10

What are the ECB norms in India?

The Foreign investment in partially or optionally or non-convertible preference shares/bonds/ debentures, is construed as an ECB and would be subject to the ECB norms. At present ECB is governed by the Master Circular on External Commercial Borrowings and Trade Credits issued by the Reserve Bank on July 1, 2014.



Proposed Space Activities Bill 2017 – Must Know Facts (1/2)



01

Where is this proposed bill applicable?

It extends to the whole of India and the exclusive economic zone of India including the off-shore platforms, ships and vessels under Indian flag in high seas, aircrafts and other air-borne vehicles registered in India and the space objects of Indian origin in outer space and the space objects which are registered under the register of space objects maintained by the Central Government.

02

To whom it's applicable?

Applicable to every citizen of India in India or outside India and every legal or juridical person, including Governmental, non-Governmental or private sector agency, company, corporate body registered or incorporated in India who are engaged in any space activity in India or outside India.

03

How does bill define space activities?

It means the launch of any space object, use of space object, operation, guidance and entry of space object into and from outer space and all functions for performing the said activities including the procurement of the objects for the said purposes.

04

How does bill define space objects?

It refers to a) any object launched or intended to be launched, on an orbital trajectory around the earth or to a destination beyond the earth orbit; b) any device, the purpose of which is to launch an object on a trajectory even when such a device is operated without payload for the purpose of its development and validation phase; and c) any constituent element of an object referred in above clauses.

Proposed Space Activities Bill 2017 – Must Know Facts (2/3)

05

What is the Regulatory mechanism for space related activities as per the Bill?

It will rest with the Central Government or any agency authorized by it which will broadly include activities like: i) framing of policies; ii) grant, transfer, vary, suspend or terminate license to any person; iii) provide authorization to launch or operate space object; iv) supervision of space activities and ensure safety requirements & safety measures; v) testing and examination of licensee's facilities and vi) calling for information and investigating incidents related to operation of space activities

06

What is the procedure to acquire a licensee from the central government for space activities?

The Central Government shall formulate, establish and notify the appropriate mechanism for licensing and procedures including eligibility criteria, and fees for license and conduct of any commercial space activity in compliance with any international treaty on outer space activity, for which India is a State Party.

07

Who are eligible to apply for license?

Person(s) eligible to apply for the licensee in the bill is defined as an individual, Hindu Undivided Family, company, trust, partnership, limited liability partnership or any other entity established under any law for the time being in force.

08

Key terms and condition for the licensee to abide by?

i) advance intimation regarding the date, territory and location of launch and the basic orbital parameters, including nodal period, inclination, apogee and perigee and such other information; ii) prevent contamination of outer space or adverse damage to earth's environment; iii) avoid any breach of India's international obligations; iv) preserve the public health, sovereignty and integrity of India, security of State and friendly relation with foreign states; and v) licensee to appropriately insure himself against any liability incurred as a result of any activity authorized by the license.

Proposed Space Activities Bill 2017 – Must Know Facts (3/3)

09

What is the condition on Liability for any damages arising out of commercial space activity carried out by licensee?

Licensee shall indemnify the central government against any claims brought against the government in respect of any damage or loss arising out of a commercial space activity or in relation to a space object covered under the licensee.

10

Does the bill grant protection of intellectual property rights?

Yes, any invention or other form of intellectual property rights such as patents, copyrights, trademarks or such other rights, developed, generated or created during the course of any space activity shall be protected. And any form of intellectual property right developed, generated or created onboard a space object in outer space, shall be deemed to be the property of the Central Government.

11

Does this bill prescribe any penalties and what are the activities than can draw the same?

Yes, activities like undertaking commercial space activity without authorization or license, furnishing of false information, suppression of factual information, causing damage or pollution, disclosing of restricted information, and accessing prohibited areas. Quantum of punishment varies from a minimum of imprisonment for a period of one year to a maximum of three years or with fine which can be minimum of fifty thousand rupees to a maximum of one crore rupees or with both.

12

Does this bill provide for the administration of Factories Act, 1948?

Notwithstanding anything contained in the Factories Act, 1948, (Act No.63 of 1948) the authority to administer the said Act and to do all things for the enforcement of its provisions, including the appointment of inspecting staff and the making of rules thereunder, shall vest in the Central Government



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God's Own Space Park



Thank you

For any queries please contact:

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